

35. Low fire risk polymethyl methacrylate compositions produced by a process in accordance with Claim 11.--

REMARKS

The claims have been amended to reduce claims fees. For convenience in prosecution, all claims are repeated herein, even those which are not amended herein. Two sets of claims are included, one set (attached) showing the changes made in this response and one clean set (set out above). No new matter has been added to the application.

Enclosed are the following:

1. Declaration;
2. Power Of Attorney by the Assignee;
3. Statement under 37 C.F.R. § 3.73(b);
4. Copy of Assignment (The assignment has been requested to be recorded with the Patent and Trademark Office);
5. \$255.00 for Excess Claim Fees (Applicant qualifies for small entity status); and
6. Copy of Formalities letter;

Applicants have not included the Oath Surcharge under 37 C.F.R. §1.492(e) because this surcharge was paid with the original papers entering the national stage. If this is incorrect, the office is authorized to charge said surcharge to Deposit Account Number 50-0694.

Applicants respectfully submit that the application is in condition for allowance. A Notice of Allowance is hereby respectfully requested.

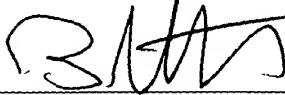
Should the Examiner feel that a telephone conference would advance the prosecution of this application, he is encouraged to contact the undersigned at the telephone number listed below.

Applicants respectfully petition the Commissioner for any extension of time necessary to render this paper timely.

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Please charge any fees due or credit any overpayment to Deposit Account No. 50-0694.

Respectfully submitted,



Seth M. Nehrbass, Reg. No. 31,281

Charles C. Garvey, Jr., Reg. No. 27,889

Gregory C. Smith, Reg. No. 29,441

Stephen R. Doody, Reg. No. 29,062

H. Roy Berkenstock, Reg. No. 24,719

Brett A. North, Reg. No. 42,040

GARVEY, SMITH, NEHRBASS & DOODY, L.L.C.

PTO Customer No.: 22920

3838 N. Causeway Blvd., Suite 3290

Metairie, LA 70002

Tel.: (504) 835-2000

Fax: 504-835-2070

e-mail: IPLNO@AOL.COM

www.neworleanspatents.com

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on this 18 day of June, 2001.



Brett A. North, Reg. No. 31,281

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APPLICANTS: Zubkova et al

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INTERNATIONAL FILING DATE: 02 August 1999

EXAMINER:

FOR: "COMBUSTION RETARDANT FOR POLYMERIC MATERIALS"

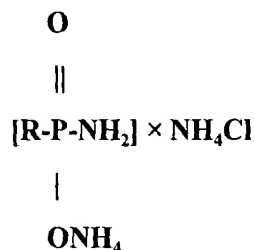
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Copy of claims showing changes

Set out below is a copy of claims showing changes made in this amendment, with added matter underlined and omitted matter in brackets:

-- 1. Complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of formula (I)

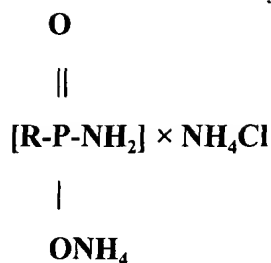


where R is the alkyl radical C-1-3.

2. Complex compound in accordance with Claim 1, in which there are about 1.8 molecules of ammonium chloride to one molecule of ammonia salt of amide of alkylphosphonic acid.

3. Process for producing a complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of Formula (I), consisting of the interaction of dichloroanhydride of alkylphosphonic acid with gaseous ammonia in a medium of organic solvent at temperature 10-20°C.

4. Combustion retardant for polymer materials, consisting of a complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of formula (I)



where R is the alkyl radical C-1-3.

5. Combustion retardant in accordance with Claim 4, in which there are about 1.8 molecules of ammonium chloride to one molecule of ammonia salt of amide of alkylphosphonic acid.

6. (Amended) Combustion retardant in accordance with Claim 4 [or 5], *characterised* in that it is microencapsulated in a polymer shell.

7. Combustion retardant in accordance with Claim 6, *characterised* in that the said polymer shell is made of polyethylene.

8. Combustion retardant in accordance with Claim 6, *characterised* in that the said polymer shell is made of polyorganosiloxanes.

9. Combustion retardant in accordance with Claim 8, *characterised* in that the polyorganosiloxanes are selected from a group including polyvinylmethyldiethoxy-siloxane and polyaminopropylethoxysiloxane.

10. Process for producing low fire risk polymer materials by the introduction of the CR into the polymer in the course of its processing, *characterised* in that the CR used is a complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of Formula (I).

11. Process for producing low fire risk polymer materials in accordance with Claim 10, *characterised* in that it includes the following sequence of operations:

- joint extrusion of the said combustion retardant with the polymer;
- moulding the polymer fibre;
- granulation.

12. Process for producing low fire risk polymer materials in accordance with Claim 10, *characterised* in that it includes the following sequence of operations:

- mixing of the said combustion retardant with the polymer composition;
- rolling the mass;
- pressing the articles.

13. (Amended) Process in accordance with [any of] Claim[s] 10[-12], *characterised* in that the combustion retardant is first microencapsulated in a polymer shell.

14. Process in accordance with Claim 13, *characterised* in that the size of the microcapsules is 5-25 μ m.

15. Process in accordance with Claim 13, *characterised* in that the polymer shell is made of polyethylene with shell content including 10-15 wt.% of combustion retardant.

16. Process in accordance with Claim 13, *characterised* in that polyorganosiloxanes are used for the polymer shell.

17. Process in accordance with Claim 16, *characterised* in that the polyorganosiloxane consists of polymethyldiethoxysiloxanes with shell containing 2-5 wt.% of combustion retardant.

18. Process in accordance with Claim 16, *characterised* in that the polyorganosiloxane used is polyaminopropylethoxysiloxane, with shell containing 2-5 wt.% of combustion retardant.

19. (Amended) Process in accordance with [any of] Claim[s] 10[-18], *characterised* in that polyethylene, polypropylene and copolymers of various compositions based on them are processed.

20. (Amended) Process in accordance with [any of] Claim[s] 10[-18], *characterised* in that polystyrene and copolymers of various compositions based on it are processed.

21. Process for producing low fire risk polymer materials by the introduction of combustion retardant into the polymer, *characterised* in that the combustion retardant used is a complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of Formula (I), which is introduced into the polymer composition before it sets.

22. Process in accordance with Claim 21, *characterised* in that a filler is introduced into the polymer composition along with the said combustion retardant, and as a result of the saturation of the filler with the setting polymer composition, low fire risk materials are produced.

23. (Amended) Process in accordance with Claim 21[or 22], *characterised* in that polyesters are processed.

24. (Amended) Process in accordance with Claim 21[or 22], *characterised* in that epoxy resins are processed.

25. Process for producing low fire risk polymer materials, *characterised* in that a complex compound of ammonia salt of amide of alkylphosphonic acid with ammonium chloride of Formula (I) is introduced into a polymer composition including synthetic rubber, after which it is rolled before the article is pressed.

26. Low fire risk polyethylene produced by a process in accordance with Claim 6.

27. Low fire risk polypropylene produced by a process in accordance with Claim 6.

28. Low fire risk polystyrene produced by a process in accordance with Claim 6.

29. Low fire risk copolymers based on polyethylene, polypropylene and polystyrene,

produced by a process in accordance with Claim 6.

30. Low fire risk polyesters produced by a process in accordance with Claim 21.

31. Low fire risk epoxy resins produced by a process in accordance with Claim 21.

32. Low fire risk composition materials produced by a process in accordance with Claim 22.

33. Low fire risk synthetic rubbers produced by a process in accordance with Claim 25.

34. Low fire risk polycapramide materials produced by a process in accordance with Claim 13.

35. Low fire risk polymethyl methacrylate compositions produced by a process in accordance with Claim 11. --

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